

Title (en)

PROCESS FOR MAKING ETHYLENE-BASED POLYMERS USING HYDROCARBON INITIATORS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ETHYLENBASIERTEN POLYMEREN UNTER VERWENDUNG VON KOHLENWASSERSTOFFINITIATOREN

Title (fr)

PROCÉDÉ DE FABRICATION DE POLYMÈRES À BASE D'ÉTHYLÈNE À L'AIDE D'INITIATEURS HYDROCARBONÉS

Publication

EP 3140327 B1 20190626 (EN)

Application

EP 15723107 A 20150508

Priority

- US 201461990847 P 20140509
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- US 2015029867 W 20150508

Abstract (en)

[origin: WO2015172009A1] An ethylene-based polymer, e.g., LDPE, with a low dissipation factor is made by a process comprising the step of contacting at polymerization conditions ethylene and, optionally, one or more comonomers, e.g., an alpha-olefin, with at least one carbon-carbon (C-C) hydrocarbyl, free-radical initiator of Structure 1: wherein R1, R2, R3, R4, R5 and R6, are each, independently, hydrogen or a hydrocarbyl group and wherein, optionally, two or more R groups (R1, R2, R3, R4, R5 and R6) form a ring structure, with the provisos that at least one of R2 and R5, and at least one of R3 and R6 is a hydrocarbyl group of at least two carbon atoms, e.g., an alkaryl of at least seven carbon atoms.

IPC 8 full level

C08F 110/02 (2006.01); **C08F 10/02** (2006.01); **C08F 210/02** (2006.01)

CPC (source: CN EP KR US)

C08F 2/38 (2013.01 - KR); **C08F 10/02** (2013.01 - CN EP KR US); **C08F 110/02** (2013.01 - US); **C08F 210/02** (2013.01 - KR); **C08F 210/14** (2013.01 - KR); **C08F 210/16** (2013.01 - CN KR); **C08F 218/08** (2013.01 - KR); **C08F 220/18** (2013.01 - KR); **C08K 5/01** (2013.01 - KR); **C08F 210/02** (2013.01 - CN EP); **C08F 2500/04** (2013.01 - KR); **C08F 2500/08** (2013.01 - KR); **C08F 2500/11** (2013.01 - KR); **C08F 2500/12** (2013.01 - KR)

C-Set (source: CN EP US)

CN

1. **C08F 10/02** + **C08F 4/00**
2. **C08F 210/02** + **C08F 220/18**
3. **C08F 210/02** + **C08F 218/08**
4. **C08F 210/16** + **C08F 210/14** + **C08F 2500/11** + **C08F 2500/12** + **C08F 2500/04**
5. **C08F 210/02** + **C08F 220/1807**

EP US

1. **C08F 10/02** + **C08F 4/00**
2. **C08F 210/02** + **C08F 218/08**
3. **C08F 210/16** + **C08F 210/14** + **C08F 2500/11** + **C08F 2500/12** + **C08F 2500/04**
4. **C08F 210/02** + **C08F 220/1807**

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